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IS 7527 (1992): Dimensions of loudspeaker magnets [LITD 5: Semiconductor and Other Electronic Components and Devices]



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IS 7527 : 1992

भारतीय मानक
लाउडस्पीकर के चुम्बकों के आयाम
(पहला पुनरीक्षण)

Indian Standard
DIMENSIONS OF
LOUDSPEAKER MAGNETS
(*First Revision*)

UDC 621.395.623.7 : 621.318.3 : 006.78

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BUREAU OF INDIAN STANDARDS
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FOREWORD

This Indian Standard was adopted by the Bureau of Indian Standards, after the draft finalized by the Magnetic Components and Ferrite Materials Sectional Committee had been approved by the Electronics and Telecommunication Division Council.

This Indian Standard was first published in 1974. This revision has been undertaken on the basis of latest advancement in hard ferrite technology and to include some new sizes of magnets used by loudspeaker manufacturing industries.

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the results of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

Indian Standard

DIMENSIONS OF LOUDSPEAKER MAGNETS

(First Revision)

1 SCOPE

1.1 This standard specifies the preferred sizes of metallic and ferrite loudspeaker magnets of common use.

2 SIZES OF LOUDSPEAKER MAGNETS

2.1 Cylindrical Metallic Magnets

The sizes of cylindrical metallic magnets shall be as given in Table 1.

2.2 Ferrite Magnets

2.2.1 Ring Magnets

The sizes of ring magnets shall be as given in Table 2.

2.2.2 Square Magnets

The sizes of square magnets shall be as given in Table 3.

Table 1 Sizes of Cylindrical Metallic Magnets
(Clause 2.1)

All dimensions in millimetres.		
SI No. (1)	Diameter (2)	Height (3)
i)	13 ± 0.5	10 ± 0.1
ii)	13 ± 0.5	12 ± 0.1
iii)	18 ± 0.4	13 ± 0.1
iv)	20 ± 0.4	15 ± 0.1
v)	25 ± 0.5	20 ± 0.1
vi)	30 ± 0.5	20 ± 0.1
vii)	37 ± 0.5	24.5 ± 0.1
viii)	45 ± 0.5	30 ± 0.1

NOTE — The sizes at SI No. (i) and (ii) are for magnets with ground diameter.

Table 2 Sizes of Ring Magnets
(Clause 2.2.1)

All dimensions in millimetres.			
SI No.	Outer Diameter	Inner Diameter	Height
(1)	(2)	(3)	(4)
i)	32 ± 0.8	16 ± 0.5	6 to 8 ± 0.1
ii)	36 ± 0.8	18 ± 0.5	6 to 9 ± 0.1
iii)	40 ± 1.0	15 ± 0.5	8 and 9 ± 0.1
iv)	45 ± 1.0	18 ± 0.5 22 ± 0.6	7 to 11 ± 0.1
v)	53 ± 1.2	24 ± 0.6	9 to 12 ± 0.1
vi)	60 ± 1.5	24 ± 0.6 30 ± 0.7 32 ± 0.7	10 to 13 ± 0.1
vii)	72 ± 1.5	32 ± 0.7	10, 12 and 15 ± 0.1
viii)	91 ± 1.8	36 ± 0.9	12 ± 0.5 17 ± 0.15
ix)	100 ± 3.0	57 ± 1.7	17 and 20 ± 0.15
x)	121 ± 3.6	57 ± 1.7	17 and 20 ± 0.2
xi)	134 ± 4.0	57 ± 1.7	17 and 20 ± 0.2

NOTE — The total unparallelism between flat surfaces perpendicular to the axis of magnet shall not exceed half the total tolerance of height.

Table 3 Sizes of Square Magnets
(Clause 2.2.2)

Outer Size	Inner Dia	Height
(1)	(2)	(3)
$(47 \pm 1.2) \times (32 \pm 1.2)$	18 ± 0.6	11 ± 0.1 and 14 ± 0.15

NOTE — The total unparallelism between flat surfaces perpendicular to the axis of magnets shall not exceed 0.15 mm.

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